**Fun with Distance and Midpoint** Name:

Rodriguez/Geo Honors

You will formally write up your responses to #3 and your choice of #1 or #2. Bonus if you formally write up all three!

1. The point (x, 0) is equidistant to – equally far from – (-1, 0) and (5, 1).

What is x?

2. A line’s x-intercept is (-5, 0). It has a positive y-intercept, and the distance between the two intercepts is 12.5. Find the y-intercept and the slope of the line.

3. Two bugs start at (3, 5). One travels down at a slope of -2.5, and the other takes a path perpendicular to the path of the first ant. How far apart are their x-intercepts?

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